

## DUTY STATEMENT

Class Title <b>Research Scientist III (Epidemiology/Biostatistics)</b>	Position Number <b>805-680-5594-001</b>
COI Classification <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Unit <b>Research, Evaluation, and Data Unit</b>	
Section <b>Policy, Research, Evaluation and Data Section</b>	
Branch	
Division <b>Office of Family Planning</b>	

This position requires the incumbent maintain consistent and regular attendance; communicate effectively (orally and in writing if both appropriate) in dealing with the public and/or other employees; develop and maintain knowledge and skill related to specific tasks, methodologies, materials, tools, and equipment; complete assignments in a timely and efficient manner; and, adhere to departmental policies and procedures regarding attendance, leave, and conduct.

**Job Summary:** The RS III serves as a research scientist in the Office of Family Planning (OFP). As such, supports coordinated activities to improve capacity for standardized collection and reporting of data on the quality of health care provided to Medi-Cal beneficiaries, including Family Planning, Access, Care and Treatment (Family PACT) Program clients. These activities will focus on collection, analyzing and reporting on data and supporting quality improvement (QI) projects based on the quality measure(s). Furthermore, the incumbent will support training for and technical support of the quality improvement projects and data analytics projects throughout the department. The incumbent must demonstrate strong PC, analytical, statistical, organizational, interpersonal, and communication skills, as well as, an expertise in statistical sampling, statistical analysis, and research methodologies in an applied research setting. Experience with MIS/DSS, Statistical Analysis Software, Office of Statewide Health Planning and Development data, Vital Records, and Structured Query Language are preferred. Experience with clinical quality measures, including the specifications, for National Quality Forum (NQF) and Healthcare Effectiveness Data and Information Set (HEDIS) measures are desired.

**Supervision Received:** RS III functions under the supervision of the Research Scientist Supervisor I (Chief of Research and Evaluation) and the general direction of the Division Chief.

**Supervision Exercised:** No supervision exercised by incumbent.

**Description of Duties:** See below.

### Percent of Time      Essential Functions

30%	Work with the Research and Evaluation team and other departmental program staff to manage the day-to-day operations and the statistical analyses required to produce the required quality measure(s), and report baseline and re-measurement data. Identify and implement data linkage methodologies grounded in probabilistic theory to accommodate the linkage of large databases that contain no common identifiers. Undertake scientific validation studies of chosen linkage methods, and perform sensitivity and specificity analyses to describe the robustness of the techniques employed. Use established guidelines and technical scientific procedures and adapt research methods to problems identified in the analysis of these quality measures with a focus on improving data quality across different data collection and management processes to improve the accuracy of quality measures. Quality measures will span but are not limited to: contraceptive use measure, postpartum contraception, and family planning service utilization.
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- 30% Design, conduct, and direct epidemiologic-based scientific research studies of a highly developed scientific scope and complexity to produce quality measure reporting that requires contracting with departments outside of DHCS to complete. Use methods and theories grounded in epidemiology and/or biostatistics to design and implement research projects assessing the effectiveness and appropriateness of quality measures to assess care received by programs within DHCS. The results of the scientific investigations will enable the Department to strategically plan new policies and interventions, and identify Medi-Cal subpopulations and service areas for quality improvement.
- 20% Develop publications of scientific findings, comprehensive annual reports of quality of care for OFP, management briefs, benchmark reports and dashboards comparing various aspects of health service utilization and health outcomes of the Medi-Cal, including Family PACT, population to nationally recognized benchmarks and clinical guidelines.
- 10% Using statistical software specifically designed for surveys with complex sampling schemes, conduct statistical analyses of data. Undertake multi-variate analyses pertaining to healthcare access issues by applying statistical and survey techniques and biologic theory for purposes of describing and understanding the distribution and determinants of reproductive health in child-bearing populations and the response of the health care system. Perform statistical significance testing and interpretation of results, comparing results of these analyses with responses from the general health care delivery system. Provide the Department with scientific input on the content of state-wide surveys.

#### **Percent of Time      Marginal Functions**

- 5% Serve as scientific advisor or consultant to other lower-level scientists, both on the Research and Evaluation teams and programs throughout the Department, conducting studies in their specific scientific field of expertise related to family planning and reproductive health services program data and quality measures.
- 5% Other duties as required.

Employee's signature	Date
Supervisor's signature	Date